** Paul Schuluntz please. Mease return all attachments with search results

10/719,868

Scientific and Technical Information Center

		(STIC) ·
Requester's Full Name: MoL		Examiner #: 59757 Date: 05/27/05
Art Unit: 1641 Pho	one Number 30 2-08	Serial Number: PCT/USOY/38640
La Rem 3C70	ation: Rem SH3[1	Results Format Preferred (circle): PAPER DISK E-MAIL
If more than one search is s	ubmitted, please prio	ritize searches in order of need.
Include the elected species or structu	res, keywords, synonyms, a erms that may have a specia	ribe as specifically as possible the subject matter to be searched. cronyms, and registry numbers, and combine with the concept or all meaning. Give examples or relevant citations, authors, etc, if and abstract.
Title of Invention:	siogoph	and abstract.
Inventors (please provide full name	es): Jos Ko Soot of	
Earliest Priority Filing Date:t	121/03	
appropriate serial number.		ion (parent, child, divisional, or issued patent numbers) along with the
Please search	for the compound	ds of claims 1,3 and 6. These are FK506
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STAFF USE ONLY		**********
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PTO-1590 (8-01)

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:51:10 ON 02 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JUN 2005 HIGHEST RN 851509-21-2 DICTIONARY FILE UPDATES: 1 JUN 2005 HIGHEST RN 851509-21-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> fil hcap

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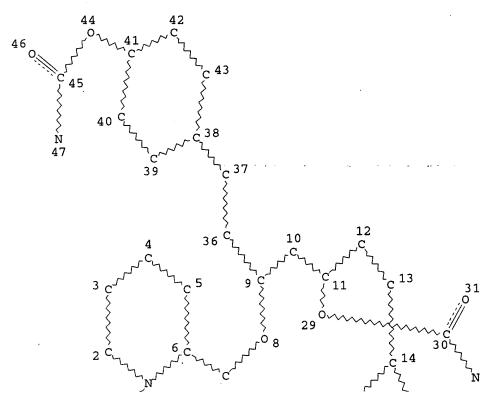
FILE COVERS 1907 - 2 Jun 2005 VOL 142 ISS 23 FILE LAST UPDATED: 1 Jun 2005 (20050601/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

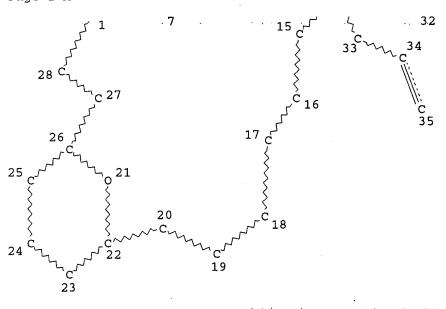
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 118

L1 3682 SEA FILE=REGISTRY ABB=ON PLU=ON NC2OC13OC3/ESS L15 STR



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Page 2-A
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NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

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=> d l18 ibib abs hitstr 1-3

L18 ANSWER (1) OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: (1994:298362 HCAPLUS

DOCUMENT NUMBER: 120-298362

TITLE: Water-soluble mac<u>rocyclic lact</u>ones as

immunosuppressants and their preparation
INVENTOR(S): Harada, Setsuo; Tanida, Seiichi; Funahashi, Yasunori

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 05294973	A2	19931109	JP 1991-162806	19910703		
JP 3138872	B2	20010226				
PRIORITY APPLN. INFO.:			JP 1990-179760 A1	19900706		
OTHER SOURCE(S):	MARPAT	120:298362				
GI						

AB The title compds. I (≥1 of R1-R3 is <u>basic group-containing carbamoyl</u> and the rest is H or protective group) and their salts, useful as immunosuppressants, are prepared by treating I (≥1 of R1-R3 is activated ester and the rest is H or protective group) with basic group-containing amines and optional deprotection of the OH group(s). A solution

Ι

of 3.20 g FK 506 in CH2Cl2 was treated with ClCO2CHClMe and pyridine at 0° to give 4.03 g I (R1 = Me, R2 = R3 = CO2CHClMe), 1.27 g of which

was stirred with 0.67 mL ethylenediamine in CH2Cl2 at 0° for 3.5 h to give, after treatment with 0.1 N HCl and 8% isobutanol-H2O, 1.10 g I.2HCl (R1 = Me, R2 = R3 = CONHCH2CH2NH2), which showed physiol. saline solubility 15.4 mg/mL and inhibited ConA-induced blastogenesis of spleen cells at IC50 of 41.8 ng/mL.

IT 154591-73-8P 154634-68-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, water-soluble, as immunosuppressant)

RN 154591-73-8 HCAPLUS

CN

Carbamic acid, (2-aminoethyl)-, 4-[2-[5-[[[(2-aminoethyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,2 1,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester, [3S-[3R*[E(1S*,2S*,4S*)],4S*,5R*,8S*,9E,12R*,14R*,15S*,16R*,18S*,19S*,26aR*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

R I OH

MeŌ

PAGE 2-A
OMe

Me

PAGE 1-A

RN 154634-68-1 HCAPLUS

CN Carbamic acid, (2-aminoethyl)-, 4-[2-[5-[[[(2-aminoethyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,2 1,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-

 $\label{lem:condition} $$ \text{tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester, dihydrochloride, [3S-[3R*[E(1S*,2S*,4S*)],4S*,5R*,8S*,9E,12R*,14R*,15S*,16R*,18S*,19S*,26aR*]]- (9CI) (CA INDEX NAME)$

Absolute stereochemistry.

Double bond geometry as shown.

PAGE 1-A

PAGE 2-A

MeO OMe

●2 HC1

L18 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:194038 HCAPLUS

DOCUMENT NUMBER: 116:194038

TITLE: Preparation of tricyclic macrocycles as

immunosuppressants and antimicrobials

INVENTOR(S): Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

Masashi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9113899	 A1	19910919	WO 1991-JP314		19910308
W: JP, US	מס סט	מים בים	GB, GR, IT, LU, NL, S	D.	
JP 05504956				E.	19910308
PRIORITY APPLN. INFO.:			GB 1990-5521	Α	
			GB 1990-17450 WO 1991-JP314	A W	19900809 19910308

OTHER SOURCE(S):

MARPAT 116:194038

GΙ

The title compds: I((R) = R1NHCO2; (R1) = H, (substituted) C1-6 alkyl,AB (substituted) (aryl;) R2 = H, (protected) hydroxy; R3 = Me, Et, Pr, allyl; R4 = OH, alkoxy; R5 = O, (H, OH), (H, alkoxy); X = O, (H, OH); n = 1, 2; dotted line is optional double bond] were prepared as immunosuppressants and antimicrobials. Thus I (R = OH; R2 = H; R3 = allyl; R4 = OH; R5 = (MeO, H); X = O; n = 2; double bond in 14-position and pyridine were dissolved in anhydrous CH2Cl2 and treated with PhN:C:O to give title compound I (R = PhNHCO2, all other defined as above for reactant). A different I (R = 4-ClC6H4NHCO2; optional double bond at 14-position absent; all others defined as above) had IC50 of 1.4 + 10-8 M against in vitro mixed lymphocyte reaction.

IT 137959-62-7P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as immunosuppressant and antimicrobial)

RN 137959-62-7 HCAPLUS

Carbamic acid, (3-hydroxypropyl)-, 4-[2-[1,4,5,6,7,8,11,12,13,14,15,16,17, CN

18,19,20,21,23,24,25,26,26a-docosahydro-19-hydroxy-5-[[[(3-hydroxypropyl)amino]carbonyl]oxy]-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

OMe OMe

L18 ANSWER (3) OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1991:582958 HCAPLUS

DOCUMENT NUMBER:

115:182958

TITLE:

Preparation of macrocyclic compounds as

immunosuppressants

INVENTOR(S):

Donald, David Keith; Hardern, David Norman; Cooper,

Martin Edward; Furber, Mark; Hashimoto, Masashi;

Kasahara, Chiyoshi; Ohkawa, Takehiko

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE:

PCT Int. Appl., 42 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

]	PATENT NO.				KIND DATE			APPLICATION NO.						DATE	
	NO 910	2736			A1		1991	0307	WO	1990-	GB12	62			19900810
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1	AU 906	2866			A1		1991	0403	AU	1990-	6286	6			19900810
1	EP 487	593			A1		1992	0603	EP	1990-	9127	90			19900810
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PRIOR	ITY AP	PLN.	INFO	.:		•			GB	1989-	1892	7		Α	19890818
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									GB	1990-	1242	6		Α	19900604
									WO	1990-	GB12	62		Α	19900810
							–								

OTHER SOURCE(S):

MARPAT 115:182958

GΙ

The title compds. I (R1 = H, OH, alkoxy, R7CO2; R2 = H; or R1R2 = bond; R3 = Me, Et, Pr, etc.; R4 = OH, alkoxy; R5 = OH, MeO; R6 = OH, alkoxy, R8CO2; R7, R8 = alkyl, aryl, NH2, etc.; n = 1 or 2; a proviso is given) were prepared Treatment of 14-acetoxy-12-[2-(4-acetoxy-3-methoxycyclohexyl)-1-methylvinyl]-17-allyl-23,25-dimethoxy-13,19,21,27-tetramethyl-1,2-thioxomethylenedioxy-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-3,10,16-trione with tributyltin hydride in refluxing toluene containing AIBN gave a product which was treated with aqueous HCl to give I (R1 = R6 = AcO, R2 = H, R3 = allyl, R4 = OH, R5 = MeO, n = 2) which in vitro exhibited IC50 of 2.4 + 10-8 M against the mixed lymphocyte reaction.

IT 134695-39-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as immunosuppressant)

RN 134695-39-9 HCAPLUS

CN

Carbamic acid, (4-chlorophenyl)-, 4-[2-[5-[[[(4-chlorophenyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,21,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,21-trioxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

Searched by Paul Schulwitz 571-272-2527

=> fil marpat

FILE 'MARPAT' ENTERED AT 15:00:22 ON 02 JUN 2005
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FILE CONTENT: 1988-PRESENT (VOL 142 ISS 22) (20050527/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

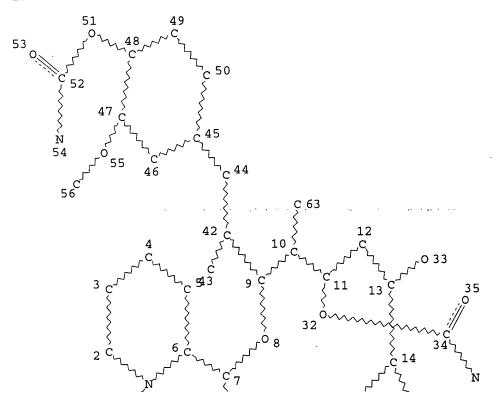
US 6864386 08 MAR 2005 DE 10337309 10 MAR 2005 EP 1518545 30 MAR 2005 JP 2005060524 10 MAR 2005 WO 2005037841 28 APR 2005

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

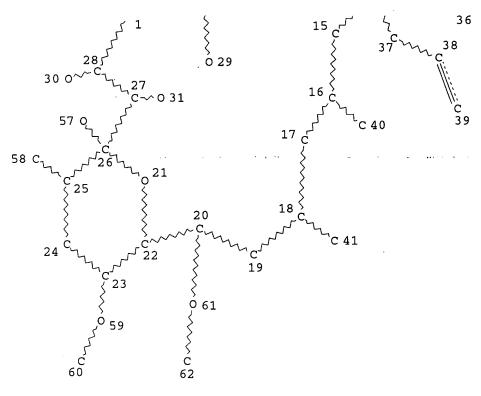
New CAS Information Use Policies, enter HELP USAGETERMS for details.

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L1 3682 SEA FILE=REGISTRY ABB=ON PLU=ON NC2OC13OC3/ESS L3 STR



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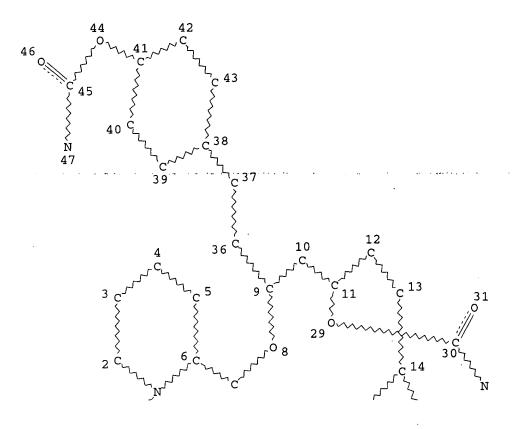


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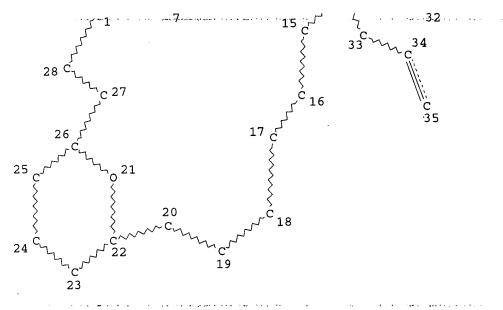
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                                                                  35
NSPEC
                                                     AT
                                                     AT
NSPEC
                       IS C
                                                                  36
NSPEC
                       IS C
                                                     \mathtt{AT}
                                                                  37
NSPEC
                       IS R
                                                     \mathtt{AT}
                                                                  38
NSPEC
                       IS R
                                                     AT
                                                                  39
                       IS R
                                                     AT
                                                                 40
NSPEC
NSPEC
                       IS R
                                                     AT
                                                                 41
NSPEC
                      IS R
                                                     AT
                                                                 42
NSPEC
                      IS R
                                                     AT
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NSPEC
                      IS C
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NSPEC
                       IS C
                                                     AT 45
NSPEC IS C AT 46
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NSPEC IS C
                                                     AT 47
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 29 30 31 32 33 34 35 36 37 44 45 46 47
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 47

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STEREO ATTRIBUTES: NONE
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4 SEA FILE=REGISTRY SUB=L1 SSS FUL L15
L17
L18
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
            16 SEA FILE=MARPAT SSS FUL L3
L22
L23
            13 SEA FILE=MARPAT ABB=ON PLU=ON L22 NOT L18
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L23 ANSWER 1 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 129:20

129:207222 MARPAT

TITLE: Pharmaceutical compositions containing tricyclic

compounds

INVENTOR(S): Yamanaka, Masayuki; Shimojo, Fumio; Ueda, Satoshi;

Toyoda, Toshihiko; Ibuki, Rinta; Ohnishi, Norio

المنافع والمتعدد المراب الماليان الماليان

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO. KI				ND	DATE			APPLICATION NO. DATE										
	WO	9836	 5747		A	 1	1998	0827		W					1998	0218			
		W:		, BR,				IL,	JP,	KR,	MX,	NO,	SG,	US,	, AM,	AZ,	BY,	KG,	
				, MD,							a n	~5						ъ.	a =
				, BE,													NL,	PT,	SE
	TW	4508	310		В	_	2001	0821		.1./	N 15	998-8	7102	169	1998	0217			
	AU	9862	2289		A	1	1998	0909		ΑŢ	J 19	998-6	2289		1998	0218			
	AU	7273	37		B:	2	2000	1207									-		
										E	P 19	98-9	0436	6	1998	0218			
	ΕP	9775	65		В	1	2003	0416											
		R:	AT	, BE,	CH,	DE	, DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU	, NL,	SE,	PT,	ΙE,	FΙ
	BR	9807	7234		Α		2000	0425		BI	R 19	98-7	234		1998	0218			
	JР	2000	513	739	\mathbf{T}	2	2000	1017		J	P 19	98-5	3648	2	1998	0218			
	JР	3396	888		В.	2	2003	0.414											
	\mathbf{AT}	2373	25	ef f rom. Majorina	E		2003	0515		A.	r 19	98-9	0436	6	1998	0218			
	ES	2193	515		$\mathbf{T}^{:}$	3	2003	1101		E:	s 19	98-9	0436	6	1998	0218			
	PT	9775	65		т		2004	0130		P	r 19	98-9	0436	6	1998	0218			
	TT	1312	98		A.	1	2004	0620		TI	. 19	98-1	3129	8	1998	0218			
	MX	9907	451		Δ		2000	0228		M	. 1º	999-7	451		1999	0812			
	NO	9904	1003		Δ		1999	1019		NO	1 1 9	99-4	003		1999	0819			
	IIC	2002	003	212	Δ.	1	2002	0314		110	2 10	300-3	6769	Ω	1999	0820			
										٥.	<i>,</i>	,,,,	0,05	0	1,,,,	0020			
PRIOF						_	2002	0314		.71	D 10	07_3	6172		1997	0220			
FRIOR	(111	AFF	. DIA .	TIME	• •										1997				
										WC) T?	128-7	2002		1998	0218			

AB A pharmaceutical composition comprising a tricyclic compound or its pharmaceutically acceptable salt, an oil substance, a surfactant, a hydrophilic substance, water, and optionally a pH control agent, with enhanced stability, absorbability and/or a low irritation potential, is provided. A cream contained FK506 0.1, iso-Pr myristate 25.0, polyoxyethylene cetyl ether 5.0, water 68.9, and Carbopol940 1.0%. The area under the blood concentration-time curve over 0-24 hors after transdermal application to the mice was >30 ng.h.mL.

MSTR 1

_Q-----G8

G8 = 138

G9 = OH

G10 = CH2CH=CH2

G12 = C(0)

G16 = alkyl / Me

G17 = OMe

G19 = 82

G21 = 88

$$G23 = C(0)$$
 $G25 = 6-5 7-8$

G12 |6 G10 |5 G16

G34 = (1-2) CH2

DER: or pharmaceutically acceptable salts

MPL: claim 1

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 - ANSWER-2-OF-13- MARPAT - COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 126:297667 MARPAT

TITLE: Aerosol compositions containing triglycerides and

tricyclic compounds

INVENTOR(S): Murata, Saburo; Shimojo, Fumio; Tokunaga, Yuji; Hata,

Takehisa

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND.				DATE		
WO 9710806		19970327	WO	1996-JP2670	19960918		
W: AU, CA,							
RW: AT, BE,							PT, SE
CA 2232378							
ZA 9607887							
AU 9669998	A1	19970409	AU	1996-69998	19960918		
AU 719613	B2	20000511					
JP 09143054	A2	19970603	JP	1996-246053	19960918		
JP 3266005	B2	20020318					
EP 851753 EP 851753	A1	19980708	EP	1996-931227	19960918		
EP 851753	B1	20031119					
R: AT, BE,	CH, DE	, DK, ES,	FR, GB, G	GR, IT, LI, LU	, NL, SE,	PT,	IE, FI
CN 1201384	A	19981209	CN	1996-198166	19960918		
JP 2000505050 JP 3362394	T 2	20000425	JP	1997-512589	19960918		
JP 3362394	B2	20030107					
AT 254450	E	20031215	AT	1996-931227	19960918		
PT 851753	${f T}$	20040430	PT	1996-931227	19960918		
AT 254450 PT 851753 ES 2206590 TW 429153	Т3	20040516	ES	1996-931227	19960918		
TW 429153	В	20010411	TW	1996-85111460	19960919		
US 6361760	B1	20020326	US	1998-29863	19980422		
HK 1017845	A1	20041210	HK	1999-102062	19990507		
US 2002061906	A1	20020523	US	2001-994702	20011128		
US 6524556	B2	20030225					
PRIORITY APPLN. INFO	.:		JP	1995-239342	19950919		
and the second s	e neukontraliya watasti e k	a and any order of the	WO	1996~JP2670			
				1998-29863			
							_

AB The use of a medium-chain fatty acid triglyceride as the dispersant in the preparation of a medicinal aerosol composition comprising a tricyclic compound such as

FK 506 dispersed in a liquefied hydrofluoroalkane propellant is described. When a liquefied hydrofluoroalkane is added to a kneaded premix of the tricyclic compound and a medium-chain fatty acid triglyceride, the active ingredient is evenly dispersed in the liquefied hydrofluoroalkane.

Therefore, by distributing a dispenser first with the kneaded premix and, then, with a liquefied hydrofluoroalkane under cooling or elevated pressure, an aerosol composition is obtained having an improved uniformity of content of the active ingredient. Thus, an aerosol was prepared containing FK 506 506 10 mg, Miglyol 812 25 mg, and HFA-27 5 mL.

MSTR 1B

$$G7 = 56$$

G9 = OH

G10 = CH2CH=CH2

G12 = C(0)

G16 = alkyl / Me

G17 = OMe

G19 = 82

82----G8

G21 = 88

G23 = C(0)G25 = 6-5 7-8

G12 |6 G10 C7 G16

MPL: claim 1

L23 ANSWER 3 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 123:350482 MARPAT

TITLE: Method for assaying calcineurin-inhibiting

immunosuppressants

INVENTOR(S): Kobayashi, Masakazu; Tamura, Kouichi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
		WO 1995-JP372	
		R, GB, GR, IE, IT, LU	
CA 2185105	AA 19950914	CA 1995-2185105	19950308
AU 9518617	A1 19950925	AU 1995-18617	19950308
AU 686762	B2 19980212		
		EP 1995-910762	19950308
EP 750193	B1 20021127		
R: AT, BE	, CH, DE, DK, ES, FI	R, GB, GR, IE, IT, LI	, LU, NL, PT, SE
		CN 1995-192949	
AT 228657		AT 1995-910762	19950308
JP 3551431		JP 1995-523355	19950308
US 6338946	B1 20020115	US 1999-457395	19991209
PRIORITY APPLN. INFO	0.:	JP 1994-39534	19940310
		, WO 1995-JP372	19950308
		US 1996-702549	19961024

AB This invention relates to a method and kit for assaying calcineurin-inhibiting immunosuppressants (e.g. FK506 and cyclosporin A) by determining a complex containing immunophilin, calcineurin, calmodulin, calcium

ions and test immunosuppressant. Using the above method and kit, it is possible to determine more accurately the total concentration of the substances actually having the immunosuppressant effect in the determination of the blood level of calcineurin-inhibiting immunosuppressants.

MSTR 1

```
Мe
              G8
                 Ġ7
                        G10
       OMe MeO
     = 51
G1
G2
    = CONH2 (SO)
G7
     = 59
G10
       = CH2CH=CH2
G11
       = 64
    -G12
G12
     = OMe
```

L23 ANSWER 4 df 13 MARPAT COPYRIGHT 2005 ACS on STN ACCESSION NUMBER:

TITLE:

= (1-2) CH2

MPL: claim-3 substitution is restricted

123:55593 MARPAT

INVENTOR(S):

FR 520 derivatives as immunosuppressants

Baumann, Karl

PATENT ASSIGNEE(S):

Sandoz-Patent-GmbH, Germany Ger. Offen., 19 pp.

SOURCE:

G13

NTE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

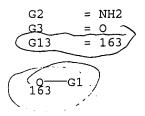
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
DE 4336458	A1	19950427	DE 1993-4336458	19931026
PRIORITY APPLN. INFO.	:		DE 1993-4336458	19931026

AB FR 520 derivs. substituted in the 33-position by carbamoyl, thiocarbamoyl, carbonate, or thiocarbonate groups were prepared for use as immunosuppressants (no data). Thus, 24-O-tert-butyldimethylsilyl-FR 520 was treated with ClCO2CCl3 to give the 33-carbamoyl derivative which was desilylated with HF.

MSTR 1



G15 = CH2CH=CH2 MPL: claim 1 2 Consomers

L23 ANSWER 5 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 122:115005 MARPAT

TITLE: Anti-proliferative lotions containing tricyclic

compounds

Kagayama, Akira; Tanimoto, Sachiyo; Murata, Saburo; INVENTOR(S):

Hata, Takehisa

Fujisawa Pharmaceutical Co., Ltd., Japan PATENT ASSIGNEE (S) :

PCT Int. Appl., 35 pp. SOURCE: CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

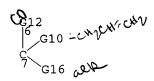
PA'	TENT NO.	KIND	DATE		APPLICATION NO.	DATE
WO		A1 CA, CN, JF			WO 1994-JP863	19940530
	RW: AT,	BE, CH, DE	DK, ES,	FR,	GB, GR, IE, IT, LU,	MC, NL, PT, SE
JP	06345646	A2	19941220		JP 1993-137924	19930608
CA	2164838	AA	19941222		CA 1994-2164838	19940530
AU	9468162	A1	19950103		AU 1994-68162	19940530
AU	684286	B2	19971211	•		
CN		A			CN 1994-192387	19940530
CN	1100538	В	20030205			
EP	753297	A1	19970115		EP 1994-916418	19940530
EP	753297	B1	20020925		 Section of the analysis of the section of the section	to the second of the second of
	R: AT,	BE, CH, DE	, DK, ES,	FR,	GB, GR, IE, IT, LI,	LU, NL, PT, SE
AT	224710	E	20021015		AT 1994-916418	19940530
	2179074				ES 1994-916418	19940530
PT	753297	· T	20030228		PT 1994-916418	19940530
US	5939427	A	19990817		US 1998-2887	19980105
PRIORIT	Y APPLN	ÌNFO.:			JP 1993-137924	19930608
					WO 1994-JP863	19940530

A lotion comprises a tricyclic compound represented by 17-allyl-1,14dihydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23-25,dimethoxy-13,19,21,27-trimethyl-11,28-dioxa-4azatricylo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetrone or a pharmaceutically acceptable salt thereof, a dissoln./absorption promoter, a liquid medium, and optionally an emulsifying agent or a mixture thereof with a thickening agent. The lotion is stable and excellent in absorbability, scarcely irritates the skin, and can be sustainedly released. It is useful for treating and preventing inflammatory and proliferative dermatoses and immunol. mediated skin diseases. For example, a lotion containing FK 506 100 mg, iso-Pr myristate 1 mL, and ethanol 4 mL was formulated. and the second of the second states of the second of the s

MSTR 1B

$$G7 = 56$$

$$G23 = C(0)$$
 $G25 = 6-5 7-8$



DER: or pharmaceutically acceptable salts

MPL: claim 1

L23 ANSWER 6 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 119:34331 MARPAT

TITLE: Liposome preparation containing immunosuppressant

tricyclic compound

INVENTOR(S): Kagayama, Akira; Tokunaga, Yuji; Kaibara, Atsunori;

Tanimoto, Sachiyo; Hata, Takehisa

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 33 pp.

DOCUMENT TYPE:

Patent

CODEN: PIXXD2

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT 1	NO.		KII	ND	DATE			AI	PPLI	CATI	ON NO	ο.	DATE		
WO	9308	802		A.	- - l	1993	0513		WC	19	92-J	P1388	- <i>-</i> 8	1992	1026	
	W :	CA,	JP,	KR,	US											
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	SE
EP	6583	44		A:	1	1995	0621		EI	2 19:	92-9:	21781	7	1992	1026	
EP	6583	44		В:	l	2000	0105									
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LI,	LU,	NL,	SE
AT	1883	78		E		2000	0115		A.	r 19:	92-9	21781	7	1992:	1026	
ES	2140	419		T^{3}	3	2000	0301		ES	19	92-9	2178	7	1992:	1026	
CA	2122	344		С		2004	0420		C	19:	92-2	12234	44	1992:	1026	
US	5817	333		Α		1998	1006		US	3 19	95-4	4630	5	19950	0522	
GŘ	3032	319		\mathbf{T}_{i}^{2}	3	2000	0427		GI	R 19	99-4	0337	5	20000	0107	
PRIORIT	Y APP	LN.	INFO.	:					JI	2 19:	91-3	13422	2	1991:	1031	
gi i Nema garang aya S			Taranga Majaman Tar					*****	· ~ WC	19	9 <i>2</i> ~J:	P138	8 ;	1992	1026	
									US	3 19	94-2	11834	4	19940	0429	

AB A liposome formulation contains a tricyclic compound such as 17-allyl-1,14-dihydroxy- 12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,1921,27-tetramethyl-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone (FK 506) and its analog, encapsulated by liposomal membrane. Egg yolk phosphatidylcholine, cholesterol, phosphatidylserine, FK 506 were dissolved in a CHC13/MeOH mixture, dried under reduced pressure to form thin membranes, treated with a phosphate buffer to give a liposome suspension, and finally filtered to isolate liposome particles containing FK 506.

MSTR 1A

G7 = 51

_Q----G8

```
loweralkylaminocarbonyl (SO (1-) G27)
G8
G9
         €на∕сн=сн2
G10
       = (1-3) CH2
G13
G14
       = OH
G18
       = alkyl / Me
G19
       = OMe
G20
       = acyloxy
G22
       = 93
```

o----G8

G34 = C(0)

DER: or pharmaceutically acceptable salts

MPL: claim 1

L23 ANSWER 7 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 117:124480 MARPAT

TITLE: Enhancers for antitumor activity of

azatricyclooctacosaene derivatives

INVENTOR(S): Tsuruo, Takashi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 03240726	A2	19911028	JP 1990-34571	19900215	
PRIORITY APPLN. INFO.	:		JP 1990-34571	19900215	
GT					

Ι

The title neoplasm inhibitor enhancers contain compds. I [R1 = (protected) OH; R2 = H, (protected) OH; R3 = Me, Et, Pro, allyl; R4 = OH, OMe; R5 = H, oxo (with R4); n = 1, 2 integer; the symbol shown by a solid line and a broken line (SL) means a single bond or a double bond; R2 ≠ protected OH when R4 = OH and R5 = H, or R4 and R5 = oxo] or their pharmaceutically acceptable salts. I are known immunosuppressants and increase the intracellular I concns. in chemotherapy. FK506 (I: R1 = OH, R2 = OH, R3 = allyl, R4 = OMe, R5 = H, n = 2, SL = single bond) enhanced the leukemia cell-inhibiting activity of vincristine as reflected by the 50% inhibition concns. FK506 at 100 mg/kg i.p. caused no mortality in mice. FK506 (1 g) was dissolved in 10 mL EtOH, mixed with 1 g hydroxypropyl Me cellulose 2910 (TC-5T), 5 mL CH2C12, 2 g lactose, and 1 g AcDiSol, dried, and pulverized to give 5 g solid solution composition

MSTR 1

```
G1
G5
G6
Me
C
G9
G3
G4
Me
OH
Me
OMe
OMe
OMe
```

G1 = 54

74 (O)·NH---G15

G3 = 56

56----G2

G4 = CH2CH=CH2

G5 = OMe

G9 = (1-2) CH2

DER: or pharmacologically acceptable salts

MPL: claim 1
NTE: substitution is restricted

ACCESSION NUMBER:

116:235667 MARPAT

TITLE:

INVENTOR(S):

Preparation of dioxaazatricyclooctacosenetetraone Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

Masasni

L23 ANSWER 8 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Brit. UK Pat. Appl., 26 pp.

CODEN: BAXXDU DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2244991	A1	19911218	GB 1990-12963	19900611
PRIORITY APPLN. INFO.	:		GB 1990-12963	19900611
O.T.				

Title compds. I (R1 = H, acyl; R2 = H, HO, acyloxy; R3 = Me, Et, Pr, allyl; R4 = HO, alkoxy; A = CH2, CO; n = 1, 2; dotted line = optional double bond) and salts thereof, useful for treating or preventing resistance to transplantation, graft-vs-host diseases by medulla ossium, autoimmune diseases and infectious diseases (no data), are prepared To a solution of 1-hydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,19,21,27-tetramethyl-11,28-dioxa-17-propyl-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone in C6H6 were added ethylene glycol and p-MeC6H4SO3H successively, the mixture refluxed azeotropically for 8 h to give the appropriate 16-ethylene acetal, which was then oxidized, dehydrogenated twice, and deacetalated to give I (R1 = R2 = H, R3 = Pr, R4 = HO, A = CO, n = 2, no addnl. double bond).

MSTR 1

G1 = 54

59----G10

G2 = 56

0----G10

G3 = CH2CH=CH2

G4 = OH G5 = C(O)

G6 = (1-2) CH2

G10 = 73

73 (O)-NH---G18

DER: and salts MPL: claim 1

L23 ANSWER 9 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

116:173897 MARPAT

TITLE:

Preparation of tricyclic compounds as immunosuppressants and antimicrobials

INVENTOR(S):

Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

Masashi

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		'		
WO 9200313	A1	19920109	WO 1991-JP811	19910618
W: JP, US				
RW: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IT, LU, NL	, SE
EP 536401	A1	19930414	EP 1991-911075	19910618
R: CH, DE,	FR, GB	, IT, LI		
JP 06501920	T2	19940303	JP 1991-510112	19910618
PRIORITY APPLN. INFO	.:		GB 1990-14136	19900625
1. Lat. Taking dara ta ofara dasar isasa madalahka sa ratua madalih 170 cma 1. Malama r		magapanang atau ng Indonesia - Indonesia	- WO 1991-JP811	19910618
GI			•	

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Tricyclic compds. [I; R1 = H, acyl; R2 = H, OH, alkoxy, acyloxy; R3 = C3-7 alkyl, aralkyl, alkenyl, etc.; R4 = OH, alkoxy; R5 = H, R6 = OH, MeO; R5R6 = oxo; A = CH2, CO, CH(OH); n = 1, 2; dotted line = optional double bond] are prepared Hydroxylation of 2.57 g allyl compound II (R = vinyl) with OsO4 gave 1.91 g dihydroxypropyl derivative II [R = HOCH2CH(OH)], which (220 mg) was oxidized with NaIO4 to give 220 mg aldehyde II (R = CHO) (III). Wittig reaction of 150 mg III with BuP+Ph3 Br- in Et2O gave 38 mg hexenyl derivative II (R = CH:CHPr), which (32 mg) was hydrogenated over Rh-Al2O3 to give 25 mg hexyl derivative II (R = pentyl). I (R1 = Me, R2 = R4 = R5 = OH, R3 = 1-propenyl, R6 = H, A = CO, n = 2, dotted line = single bond) showed IC50 of 4.1 + 10-9M in suppression of in vitro mixed lymphocyte

MSTR 1

G1 = 69

-c(o)-NH----G15

G2 = 90

-C(0)-NH----G15

G3 = alkenyl<(3-7)>

= OH G8 = OMe G10 = CHOH G11

= (1-2) CH2 G12

or pharmaceutically acceptable salts DER:

claim 1 MPL:

L23 ANSWER 10 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

116:104486 MARPAT

TAN-1313, its acyl derivatives, and water-soluble

preparations containing them

INVENTOR(S): Tanida, Seiichi; Harada, Setsuo

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

Jpn. Kokai Tokkyo Koho, 11 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03178978	A2	19910802	JP 1990-262665	19900928
JP 3054741	B2	20000619		
PRIORITY APPLN. INFO.	:		JP 1989-256191	19890929
GI				

Ι

AB TAN-1313 (I; R1-3 = OH) (II) and its triacyl derivs. I (R1-3 = acyloxy), useful as immunosuppressants, are manufactured from FK506. II is manufactured from

FK506 with culture media of Streptomyces or Amycolatopsis or their prepns. I (R1, R2, R3 = H, OH, OR; R = organic residue) is solubilized in water using cyclic polysaccharides. S. tolypophorus IFO 1315 was precultured in a medium containing glucose, tryptone, and yeast extract at 28° for 48 h, cultured in the same medium at 28° for 24 h, mixed with MeOH solution of FK506, and further cultured for 24 h to produce 220 mg II from 20 L medium. Crude II (.apprx.80 mg) in pyridine was treated with Ac20 at room temperature for 7 h to give 25 mg II triacetyl derivative

MSTR 2

G1 = 59

59 ---- G2

G2 = aralkyl (SO (1-) G6) / 61

c(0)·G3

G3 = NH2 MPL: claim 3

L23 ANSWER 11 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 116:76365 MARPAT

TITLE: Methods for treating and preventing inflammation of mucosa and blood vessels using FK 506 and related

compounds

INVENTOR(S):
PATENT ASSIGNEE(S):

Kubes, Paul; Hunter, James; Granger, D. Neil Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 22 pp.

to the first property of a second second

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9117754	A1	19911128	WO 1991-US3185	19910513

W: JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
PRIORITY APPLN. INFO.: US 1990-522145 19900511
GI

Ι

AB Macrolides I [R1 = (protected) OH; R2 = H, (protected) OH; R3 = Me, Et, Pr, allyl; R4 = HO, MeO, :O; n = 1, 2] and their salts, such as FK 506, are useful for treating or preventing the title diseases, e.g.

LTB4-mediated diseases, gastric ulcers, vascular damage from ischemic diseases and thrombosis, ischemic bowel disease, inflammatory bowel disease, necrotizing enterocolitis, and burn-associated intestinal lesions. Thus, cats with exptl. intestinal ischemia showed mucosal infiltration by neutrophils (determined from mucosal myeloperoxidase activity) which was lessened by treatment with FK 506 (0.3 mg/kg/day i.m. Capsules were prepared by dissolving 1 g FK 506 in 10 mL EtOH, adding 1 g hydroxypropylmethylcellulose 2910 to form a suspension, dissolving in 5 mL CH2C12, adding 2 g lactose and 1 g croscarmellose Na, evaporating off the solvent, and grinding, sieving, and encapsulating the dry product.

MSTR 1D

$$G1 = 62$$

$$G2 = 72$$

= loweralkylamino (SR (1-) CO2H)

G15 = 126

G16 = CH2CH=CH2

G17 = 120

HC-120 -G18

G18 = OMe G19 = CH2CH2

G22 = loweralkylamino (SR (1-) CO2H)

MPL: claim 1

L23 ANSWER 12 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

115:279490 MARPAT

TITLE:

Preparation of (dimethoxycyclohexyl)oxopentamethylnona decadi(tri)enoate derivatives and their lactones as

immunosuppressives

INVENTOR(S):

Cooper, Martin Edward; Donald, David Keith; Tanaka,

Hirokazu

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE:

Eur. Pat. Appl., 16 pp.

DOCUMENT TYPE:

Patent

CODEN: EPXXDW

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 444829	A2	19910904	EP 1991-301431	19910222
	A3 CH, DE		GB, GR, IT, LI, LU	
JP 04217939 US 5210227	A2 A	19920807 19930511	JP 1991-53588 US 1991-661802	19910227 19910227
PRIORITY APPLN. INFO	:		GB 1990-4396 GB 1990-9485	19900227 19900427

GΙ

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Title compds. I [R1 = H, (protected) OH, alkoxy; R2 = H; R3 = O or H, OH; R4 = Me, Et, Pr, CH2CH:CH2; R5 = (protected) OH, alkoxy; R6 = OH; R7 = OH, alkoxy, NR8R9; R8, R9 = H, alkyl, aryl; R6 and R7 together may equal O; R1R2 may equal a double bond; with provisos] were prepared as immunosuppressives. Thus MeNH2.HCl was dissolved in MeOH and a solution of NaOH in MeOH was added. The resulting solution was added to macrolide II R1, R5 = OH; R2 = H; R3, R10 = O; R4 = allyl), followed by a solution of NaCNBH3 in MeOH. Thus solution was stirred for 1.5 h at 20° to give title compound I (R1, R5 = OH, R2 = H, R3 = O, R4 = allyl, R6 = Me, R7 = OMe). A similar I (R1 = H, R4 = Pr, all others as above) had IC50 of 1 + 10-7M against a mixed lymphocyte reaction.

MSTR 2

G1 = 19

18----G2

G2 = 82

82 (O) NH G18

G4 = C(0)

G5 = CH2CH=CH2

G6 = 42

√9—G2

DER: and pharmaceutically acceptable salts

MPL: claim 8

NTE: substitution is restricted

L23 ANSWER 13 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

115:99270 MARPAT

TITLE:

Pharmaceutical compns. containing macrolide antibiotics

for the treatment of reversible obstructive airways

diseases

INVENTOR(S):

Norris, Alan Anthony; Jackson, Dale Michael; Makino,

Sohei; Fukuda, Takeshi; Akutsu; Ikuo

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE:

PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC NUM. COUNT: 1

PATENT INFORMATION:

PA!	CENT N	o.		KII	ND	DATE			AI	PPLIC	CATIO	ON NO.		DATE
WO	90148					1990: KR,			WC	199	0-GI	3866	•	19900606
									GB	ΤT	L.H.	NL, S	E	
TD	03291													19900409
									CF	4 TA	90-20	J54ZU3	•	19900606
CA	20542	03		С		2001	0821							
AU	90572	14		A.	1	1991	0107		JΑ	J 199	90-51	7214		19900606
AU	63946	0		B	2	1993	0729							
EP	47599	4		A	1	1992	0325		EI	2 199	90-90	08603		19900606
	47599	_				1994	0914							
	R:	_						FR.	GB.	IT.	LI.	LU. N	JL.	SE
	05503		22,											19900606
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	20610											08603		
US	55190	49		Α		1996						3305		19930716
PRIORIT	Y APPI	N	INEO.						GI	3 19.8	391.	2.93.5		1989,0606
									JI	2 199	90-9	6045		19900409
									WC	199	90-G1	B866		19900606
												31190		19920127
									0.) IJ:	22-10	31130		19949141

AB Pharmaceuticals containing 17-allyl-1,14-dihydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,19,21,27-tetramethyl-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone and its derivs. (Markush structure given) are prepared for the treatment of reversible obstructive airways disease, particularly asthma.

MSTR 1

$$G3 = 25$$

$$G4 = 76$$

$$G7 = 25$$

$$G9 = 25$$

$$G14 = (1-2) CH2$$

$$G15 = CH2$$

$$G20 = NH$$

DER: or pharmaceutically acceptable derivatives MPL: claim 1